My part of the group project was to create a MongoDB database which could hold the data entered from the front end of the project which was passed through via a Java connection. I and Conor worked together for this as we were assigned to the database creation. The first task we set about doing was as an entire team we worked on what we needed for the database and what kind of information will it store. As I never previously used MongoDB before I went and did some research on what Mongo was. MongoDB is a NoSQL database. Instead of using [tables](http://searchsoa.techtarget.com/definition/table) and [rows](http://searchoracle.techtarget.com/definition/row) as in [relational databases](http://searchsqlserver.techtarget.com/definition/relational-database) like SQL which is an alternative. MongoDB is built on an architecture of collections and documents. Documents include sets of [key-value pairs](http://searchenterprisedesktop.techtarget.com/definition/key-value-pair) and are the basic component of data in MongoDB. Collections contain sets of documents and function as the comparison of relational database tables. Many companies are using MongoDB, as it represents a solution for a range of big data challenges.

To first find out how to work and install Mongo locally on my machine I completed the lab. At that point, I also implemented a small test database to make sure I understood what I was doing. Then I went about creating the database for the project, which had the fields of the all the customer's personal details, occupation, medical conditions and their quote. I used the command prompt for the creation of the database. Once I completed creating the database I used RoboMongo which is a GUI which lets you view all the data stored in your database. You can also remove, add and update fields within this. I then exported my file and uploaded this to GitHub, so Hugh could use it to make the connection to the front end with Java. On GitHub, I have uploaded 3 file types of the database (bson, .csv and. json).

I also gave Hugh a hand with the java connection as he had to import the MongoDB to work with the front end. So that the customer entered their details this would be saved to the database and the Java would work out their quote based on what they entered. Then they would receive their quote.

Throughout the project, I also used Jira for adding tasks I would be doing for the sprint period. I found this very helpful as it gave a target to complete the piece of work needed to do. After completion of the task, I would upload any relevant documents to GitHub. Jira was a very useful tool for the project and gave guidance as you could view the tasks the rest of the group had to complete.

All work completed was pushed to GitHub. I made my own branch on GitHub to push my work onto. I used the GitHub website to push the work completed. I also uploaded any documents completed relevant to the project. GitHub was a great tool to use as the forking feature let us work in parallel development. Also, you could pull everyone else’s work to see how things were progressing.

All communication was done via email and in our weekly meetings. We had a group scrum twice a week to let all members of the group know what we had done, what stopped us and what we were going to do. Also in the meetings, the work would get assigned for the week and this would have been put up on Jira as a sprint.